	Application No.	Applicant(s)
Notice of Allowability	10/736,343	BERA, RAJENDRA K.
	Examiner	Art Unit
	Ryan P. Fiegle	2183
	Ttyair i . i legie	2103
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>9/5/06</u> .		
2. 🔀 The allowed claim(s) is/are <u>26-40</u> .		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
	·	
Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Informal	Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Summan	y (PTO-413),
3. ☐ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7. ⊠ Examiner's Amend	
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Statem	nent of Reasons for Allowance
of Biological Material	9. 🗌 Other	
,		

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Anthony England on 9/28/06.

2. Please cancel claims 1-25 and add new claims 26-40 as attached.

Allowable Subject Matter

3. The proposal of assigning a prime number as a unique proxy value to each indirect loop index variable of a loop is a novel concept in the art.

The presently amended claims go on to state that these prime numbers are used to detect dependencies across loop iterations through the use of the fundamental theorem of arithmetic. Such is not only novel, but also considered by the examiner to be a breakthrough in the parallelization of loop code through memory disambiguation of indirect array accesses.

The closet application is that known in cryptography, wherein a unique prime number is assigned to as a user as a "key". Multiple keys are multiplied together to form a "lock". If a lock is divisible by a requesting key, then access is granted to the protected data. Though the math is similar, after further consideration, the examiner

Application/Control Number: 10/736,343 Page 3

Art Unit: 2183

agrees with the applicant's remarks submitted 9/5/06 that this method is not analogous to the art of detecting loop dependencies.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ryan P. Fiegle whose telephone number is 571-272-5534. The examiner can normally be reached on M-F 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie Chan can be reached on 571-272-4162. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Ryan P Fiegle Examiner

Art Unit 2183

EDDIE CHAN
EDRY PATENT EXAMINER
ORY PATENT FR 2100

UPERVISORY PAIENT EXAMINATION TECHNOLOGY CENTER 2100